

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	722	"porous carbon" with (platinum or pt or palladium or pd)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/10 11:28
S2	1	S1 and "multiply twinned"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/08 13:49
S3	65	"multiply twinned"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/08 13:46
S4	22	S3 and (platinum or pt or palladium or pd)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/10 09:00
S5	1	(platinum or palladium) same "multiply twinned"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/08 13:52
S6	16	(platinum or palladium) and "multiply twinned"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/08 13:49
S7	13	(platinum or palladium) same twinned	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/08 13:57
S8	13	(platinum or pt) same twinned	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/08 13:55
S9	4	S8 not S7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/08 13:55

## EAST Search History

S10	537	(platinum or palladium) with epitaxial\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/08 13:57
S11	0	S1 and S10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/08 13:57
S12	18	S10 and catalyst	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/08 14:05
S13	290	S1 and ((particle or granule or particulate or crystal or crystallite) with (platinum or pt or palladium or pd))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/08 14:06
S14	50	S13 and "reducing agent"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/08 14:07
S15	34	S14 and "fuel cell"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/08 14:07
S16	4	(twinning or twinned) with (platinum or palladium)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/09 09:49
S17	38	(twinning or twinned) same (platinum or palladium or pt or pd)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/09 09:52
S18	13	((("3092093") or ("1244165"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/01/09 10:05
S19	65	"multiply twinned"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/10 09:00

## EAST Search History

S20	22	S19 and (platinum or pt or palladium or pd)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/10 09:00
S21	8	(twinned or twinning) with (platinum or pt or palladium or pd)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/10 09:01
S22	2695	"electroless plating" same (platinum or pt)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/10 10:59
S23	5	S22 and HRTEM	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/10 10:57
S24	117	S22 and (epitaxy or epitaxial)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/10 10:57
S25	2	S24 and "porous carbon"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/10 10:57
S26	2	"electroless plating" same (platinum or pt) same twin\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/10 11:00
S27	30	(platinum or pt) same (twinned or twinning)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/10 11:00
S28	6	("5407458").PN. OR ("6033783").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/10 11:06
S29	15	"twinned particle"	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/10 11:08
S30	0	"twinned platinum" or "twinned Pt"	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/10 11:09

## EAST Search History

S31	10	mtp with (platinum or pt)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/10 11:28
S32	38	(twinning or twinned) same (pd or pt or platinum or palladium)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/10 13:33
S33	1	(twinning or twinned) near5 (pd or pt or platinum or palladium)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/10 13:33
S34	395	(spe or "solid polymer electrolyte") with (both or each) with side with electrode	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/14 10:00
S35	183	S34 and (mea or "membrane electrode assembly")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/14 09:59
S36	1021	(mea or "membrane electrode assembly") with (both or each) with side with electrode	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/14 09:59
S37	294	(spe or "solid polymer electrolyte") and S36	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/14 10:00
S38	101	(mea or "membrane electrode assembly") same "fuel cell" same electrode same ((each or both) adj side) same (pem or "polymer electrolyte film")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/14 10:10
S39	52	S38 and (electrode same catalyst same (platinum or pt))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/01/14 10:11

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1029	(twinned or twinning twin) same (pt or platinum pr au or gold or palladium or pd)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/14 13:48
L2	966	(twinned or twinning twin) same (pt or platinum or au or gold or palladium or pd)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/14 13:57
L3	0	(twinned or twinning twin) same (pt or platinum or au or gold or palladium or pd) same acatlyst	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/14 13:49
L4	0	(twinned or twinning twin) same (pt or platinum or au or gold or palladium or pd) same catlyst	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/14 13:49
L5	151	I2 and catalyst	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/14 13:50
L6	1	("5407458").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/14 13:56
L7	534	(twinned or twinning twin) same (pt or platinum)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/14 13:57
L8	148	(twinned or twinning twin) with (pt or platinum)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/14 13:58
L9	148	(twinned or twinning or twin) with (pt or platinum)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/14 13:58

## EAST Search History

L10	4	(twinned or twinning) with (pt or platinum)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/14 13:58
L11	21	(twinned or twinning) same (pt or platinum)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/14 14:00
L12	2	(twinned or twinning) same metal same surface same catalyst	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/14 14:01
L13	12	(twinned or twinning) same metal same surface adj area	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/14 14:04
L14	10	(twinned or twinning) same particle same surface adj area	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/14 14:04
L15	1	L14 not L13	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/14 14:04
L16	9	(twinned or twinning) same particle same surface adj area	USOCR	OR	ON	2008/01/14 14:04